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ROUTING AND RECORD SHEET

SUBJECT: (Optional)

Guard Program Evaluation Phase, Memorandum of Understanding

FROM: ISRD/ORD 726 Ames

EXTENSION NO. ORD-1235-83

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DATE 14 September 1983

TO: (Officer designation, room number, and building)	DATE		OFFICER'S INITIALS	COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)
	RECEIVED	FORWARDED		
DD/OCR			CW	
1. D/OCR 2E60 Hqs.				CONCUR (with one exception)
2. D/ODP 2D0105 Hqs.				CONCUR
3. C/ISSG/OS				
4. ISRD/ORD 726 Ames Bldg.				Distribution
5. EXO/ODP	8 NOV 83	9 nov 83	mG	1-4: pls send one copy to OD/OCR when approved
6. Chief, Processing Services Group, ODP	2 nov		DW	5-6 Your action in coordination with C/MS. Do you want to concur with this? Due Date → 16 DEC M.G.
7.				
8.				
9. C/MS/ODP		.		
10. EXO/ODP				
11.				turned 11/1/83 pml
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ORD-1235-83

14 September 1983

MEMORANDUM FOR: Director of Research and Development
                 Director of Central Reference
                 Director of Data Processing

FROM   : [   ]   STAT
                 RECON Program Manager
                 Information Systems Research Division
                 Processing and Analysis Technology Group
                 Office of Research and Development

SUBJECT   : RECON Guard Program Evaluation Phase, Memorandum of
                   Understanding

REFERENCES   : A. Community RECON/Guard Interface Control Document
                       dtd 19 Jul 1983
                   B. ORD-563-83 dtd 9 May 1983
                   C. Sytek Support Proposal TP-83019 dtd 20 Apr 1983
                   D. Sytek Phased Installation Plan (Attachment A)
                   E. MOU (COINS-PMO/CIA) dtd 3 Jun 1983
                       (Attachment B)
                   F. "Participating Office Contact Persons" List
                       (Attachment C)
                   G. ODP Site Plan for RECON Guard System
                       (Attachment D)

I. PURPOSE

    The purpose of this memorandum is to outline the objectives of
the Evaluation Phase and identify the actions required of
participating offices to complete this final phase of the RECON/
Guard program. This memorandum will serve as the basis for each
participating component to plan and identify its role and
responsibilities in support of the RECON Guard program. The
Interface Control Document (Reference A) was maintained by OCR and
is the technical reference document for this final program phase.

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II.   OBJECTIVE/SCHEDULE

     The objective of the Evaluation Phase is to thoroughly and
rigorously test the security and operational aspects of the Guard
System using an internal test network. This test network will be
supplied by the Guard System development contractor, Sytek, Inc.,
and will be composed of components from their LocalNet product
line. The LocalNet product line general description is provided in
Attachment E. This Guard Test System (GTS) will be housed entirely
within the Agency's Hqs. Building. Therefore, no external
communications are required. Thus the possibility of damage from
spillage or malfunction/misuse of the RECON/Guard System during the
Evaluation Phase is removed.

     Because of the flexibility and power of the GTS the Evaluation
Phase could be completed in less than six months. Following
successful completion of this last phase, a demonstration with a
live external network connection (perhaps COINS) will be performed.

III.   GUARD DEVICE SYSTEM FEASIBILITY DEMONSTRATION AND EVALUATION
       PLAN

     The demonstration and evaluation of the Guard Device system once
installed in ODP space (Attachment D) will be conducted in two steps:

   Step 1:   Demonstrate the Guard Device with test RECON data
                  (reformatted for use with the Guard) (Figure 2)
                  connected to the Guard Test System (GTS) network.
                  The "RECON Guard Confidence Test Plan" dtd 3 Jan 83
                  will be used during Step 1.

   Step 2:   Demonstrate the Guard Device with open COINS or
                  other designated interface (Figure 1), following
                  written approval by D/ODP, D/OCR, and C/ISSG/OS.

The installation and checkout will entail connecting the on-line
Guard to the COINS (HAS) and TEST RECON system, installation of the
update Guard and tape drives, and the system tests (T/D's) required
to verify the installation prior to the Test/Evaluation phase.
Figure 1 shows the full Guard system connections which will be
constructed during installation.

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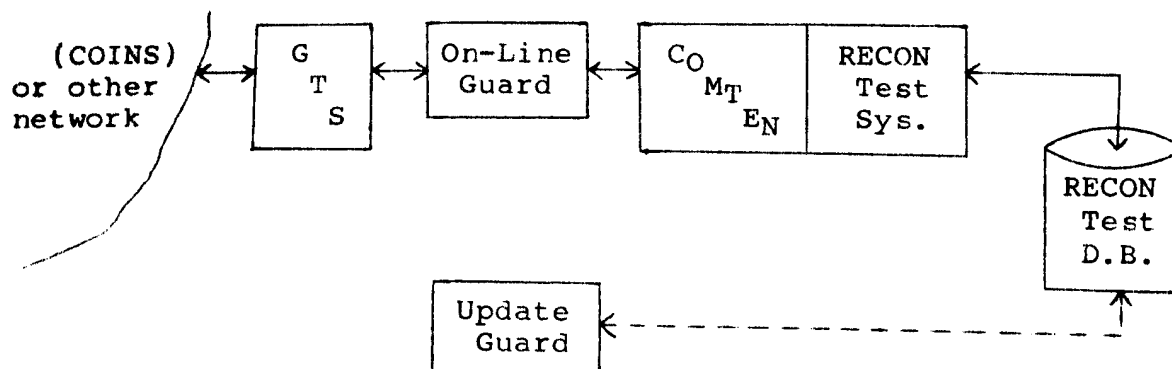

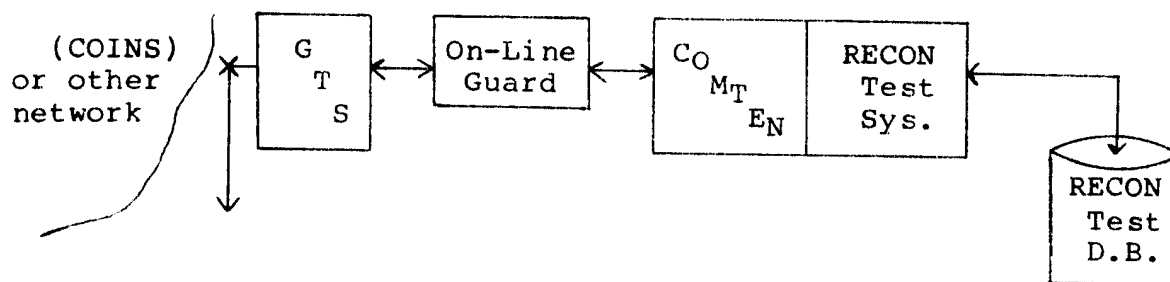Figure 1 - Guard System Connections (live network tests)

Figure 2 - GTS-Guard-RECON Tests

The live tests with the COINS network connection activated will be the final step in the RECON Guard Device program.

IV. REQUIRED ACTIONS

This section outlines the roles and responsibilities of each participating office for the completion of the RECON project feasibility demonstration phases. The interrelationships of these actions are shown on the attached chart.

1. ORD

The primary ORD function will be the monitoring of the Guard Device system implementation contractor's efforts. ORD will also coordinate the technical activities of the other participating offices.

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a. The ORD RECON Guard Program Manager (RGPM/ORD) or his designate will be responsible for technial issues, to wit:

(1) all aspects of RECON Guard technical Evaluation Phase planning, designing, organizing, managing, coordinating, controlling, and scheduling of the resources and activities of Agency components (ORD, OCR, ODP, ISSG); the COINS PMO and associated support contractor; and the RECON Guard support contractor, Sytek, Inc.;

(2) preparing, maintaining, and updating a detailed Evaluation Phase planning/scheduling document (Attachment A) to be used by Agency components and support contractors as the basis for planning, scheduling, directing, and allocating resources in support of RECON Guard Evaluation Phase testing.

Attachment A will define all supplies, personnel, hardware, software, test session objectives and time/duration, and all other support requirements detailed on a day-by-day basis, and covering the entire RECON Guard Evaluation Phase testing period.

(3) reviewing and coordinating each RECON Guard test session utilizing ODP resources with C/OD/P/ODP prior to each session;

(4) recommend, based on technical success or failure, the termination of, in coordination with OCR and ISSG/OS, the RECON Guard Evalution Phase testing and returning all COINS PMO HAS-C30/IMP and RECON Guard equipment;

(5) executing, in cooperation with the COINS PMO, the COINS PMO prepared acceptance test plan for the COINS PMO HAS;

(6) following the completion of the RECON Guard Evaluation Phase, ensuring that the RECON is sanitized in accordance with the security procedures developed by ISSG/OS prior to removal from Agency facilities.

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2. OCR

The necessary OCR functions are as follows:

(1) Implement and maintain all RECON system software required to support RECON Guard Evaluation Phase testing

(2) Provide dummy data base for implementation contractor

(3) Develop TEST RECON data base (This will consist of unclassified RECON records, modified to meet classification/dissemination requirements for the Guard evaluation.)

(4) Identify liaison and test personnel

(5) Conduct tests of Community RECON System operation during Guard System Evaluation Phase (These tests will be conducted from terminals in the OCR area, similar to the normal OCR RECON access method. Specific tests are outlined in Reference A.)

(6) Maintain Interface Control Document for RECON/Guard Program

2.1 RECON Software Changes

The changes required to the RECON system software will be detailed in software functional specifications prepared by ORD and the J.P. Anderson Co. These specifications were completed during April 1982 and immediately made available to OCR RECON software maintenance personnel. This new system will be the Community RECON operational test system.

2.2 Contractor Test Data Base

The implementation contractor (Sytek, Inc.) will require a test RECON data base (sanitized) for the design efforts at the contractor's site. This dummy data base would be supplied to the contractor as GFE.

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2.3 Government Test Data Base (Community RECON Data Base)

Subsequent to contractor site testing (completion of
pre-shipment Acceptance Tests), the Guard Device system will be
delivered to the government to be installed in ODP space in
accordance with Attachment D. The Guard System will be
connected to the Community RECON System for the evaluation phase
testing. The Community RECON system would house the altered
RECON software (item 2.1), the TEST RECON data base, and the
production/operational RECON data base. This test data base
will be composed of UNCLASSIFIED RECON linear records. These
records, though unclassified in content, will contain the full
range of classification and compartmentation category selection
criteria typical of RECON operation records. The production/
operational RECON data base will be used in the final stages of
testing, only after the initial testing using the TEST RECON
data base is successful.

2.4 Identify Liaison and Test Personnel

These individuals would assist ORD and Sytek, Inc., the
implementation contractor, during the installation, test and
evaluation of the Guard Device system. These individuals would
[conduct] the government acceptance testing of the Guard Device
System. Contact persons for participating components are listed
in Attachment C.

3. ODP

During this Evaluation Phase, ODP's primary mission will
remain the support of its central services and secondarily the
support of RECON Guard testing. Accordingly, Chief, Operations
Division, ODP (C/OD/P/ODP) will have the prerogative to cancel
any testing session at any time when, in his opinion, ODP
mission requirements so dictate. In the event of testing
session cancellation, C/OD/P/ODP will contact RGPM/ORD (or his
designate) who will be responsible for notifying all test
personnel of the cancellation and arranging alternate test
sessions.

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The Office of Data Processing will provide general computer support and space for the RECON Guard and COINS HAS-C30/IMP hardware, and the OCR supplied RECON applications software and test data base. Specifically:

   a. Chief, Operations Division (C/OD/P/ODP) will serve as the primary ODP point of contact for the Evaluation Phase of the RECON Guard Program and will be responsible for:

   (1) coordinating all ODP RECON Guard support activities within ODP;

   (2) approving and/or initiating all changes to the Evaluation Phase planning/scheduling document involving ODP services;

   (3) ensuring that the RECON Guard testing activities do not adversely impact the availability and/or performance of ODP central services;

   (4) cancelling any test session at any time when ODP mission support requirements so dictate;

   (5) operating ODP equipment supporting the RECON Guard testing activities and ensuring that the ODP hardware configuration complies with ISSG security policy and, at minimum, is electrically isolated from all other hardware, software, and applications supporting all ODP classified central services;

   (6) ensuring that no connection of ODP and/or COINS PMO HAS equipment to external networks occurs without the written approval of D/ODP;

   (7) providing full-time operators for the COINS HAS and C30/IMP equipment; and

   (8) providing for stocking of PDP 11/70 hardware related supplies, e.g., disk packs, magnetic tapes, paper, etc.

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     b. Chief, Engineering Division (C/ED/P/ODP) will be responsible for:

(1) developing and preparing an ISSG/OS approved, electrically isolated ODP hardware configuration to support RECON Guard Evaluation Phase testing;

(2) identifying space for the installation of COINS HAS-C30/IMP equipment and RECON Guard equipment;

(3) preparing floor plans for the installation of the COINS HAS-C30/IMP and RECON Guard hardware;

(4) preparing ODP space to accommodate COINS PMO HAS-C30/IMP and Sytek RECON Guard equipment;

(5) receiving the COINS HAS PDP 11/70 system from DEC and supervising its installation and removal by DEC personnel;

(6) installing two 64KB lines from the TETRAHEDRON node at the CIA communications center to the COINS PMO supplied C30/IMP (Reference B);

(7) contracting for maintenance of the PDP 11/70 hardware and providing for stocking of PDP 11/70 hardware related supplies, e.g., disk packs, magnetic tapes, paper, etc.;

(8) supply a maximum of four Delta Data 7260 terminals and a Dataroyal IPS-5000-C printer to RGPM/ORD. Two terminals and the Dataroyal printer will be used as RECON Guard audit devices. Two terminals may be used by the COINS PMO HAS system;

(9) providing Delta Data terminal engineering support to RGPM/ORD (HAS, Sytek, etc.) as required;

(10) providing power, air conditioning, conduit, and other installation related support as necessary for both the COINS HAS-C30/IMP and RECON Guard equipment;

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    (11)   providing COMTEN connection/line for Sytek test
           equipment; and

    (12)   installing (3) 3400 bps, Async (mil spec 188C) lines
           from GH44 (OCR RECON terminals) to RECON Guard System
           space for connection of OCR terminals to RECON Guard
           System (Reference B).

    c.   Chief, Systems Programming Division (C/SPD/P/ODP)
is responsible for:

    (1)   developing and preparing IBM and COMTEN system
          software to support the Engineering Division RECON
          Guard Evalution Phase hardware configuration;

    (2)   providing IBM and COMTEN system programming and
          consultation support to RECON Guard Evaluation Phase
          testing participants as required; and

    (3)   providing Delta Data terminal programming consultation
          support to RGPM/ORD (HAS, Sytek, etc.) as required.

4.   OS/ISSG

It will be the responsibility of ISSG to evaluate the
results of the test/evaluation and approve or disapprove usage
of the Guard Device System. Approval by ISSG would sanction the
Guard Device and guard concept as a viable means of both
protecting Agency data bases from corruption via access from
external networks and assuring that users will receive only that
information which they are authorized to receive. Approval for
subsequent usage of the Guard Device System within the Agency
must be requested and will be reviewed on a case-by-case basis.
Disapproval will detail specific shortcomings of the Guard
Device System.

It will also be the responsibility of ISSG to specify the
administrative security procedures which must be followed during
the Evaluation Phase.

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5.   CIRS Project (Information Handling Committee)

     The Community Information Resource Sharing (CIRS) effort
will be prime users of the RECON Guard Device concept. The CIRS
project liaison person, [   ] (IHC), will monitor   STAT
the Guard implementation effort and provide insight to
particular/changing CIRS project concerns.

6.   Sytek, Inc. (Guard System Contractor)

     Contractor efforts for the evaluation phase are given in
Reference C.

7.   J. P. Anderson Co. (RECON Guard Program Advisor)

     The Anderson Co. will exercise the Trap-Door Program as
will OCR/IAB. The primary effort to subvert the Guard System
and thus evaluate the security function of the Guard will be
conducted by the Anderson Co. in conjunction with OCR/IAB.

8.   COINS/COINS-PMO Issues

     COINS network operational and policy issues must remain the
privy of the co-signees of Attachment B. The RECON Guard
Program Evaluation Phase does not require connection to an
external network for completion. Thus all COINS related issues,
such as installation/removal, work space provisions and
escorting for COINS personnel, etc., should be addressed by
offices co-signing Attachment B.

If Attachment B does not sufficiently address these matters (i.e.,
removal of COINS related equipment prior to 1 July 1984), perhaps
renegotiation of the terms of the MOU should be initiated.

     ORD involvement with the COINS question must be limited to
direction of Sytek, Inc. (Guard System implementation contractor)
efforts directed at the implementation of a COINS-HAS/Guard System
interface and provision of technical advice on use of the COINS
network in the Guard System environment.

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V. SUMMARY

Subsequent to successful delivery/installation and check-out of
the RECON/Guard System, the majority of testing will be conducted
from the OCR area (Rm. GH44). The terminals in GH44 attached to the
Guard System will be used to evaluate the operational and security
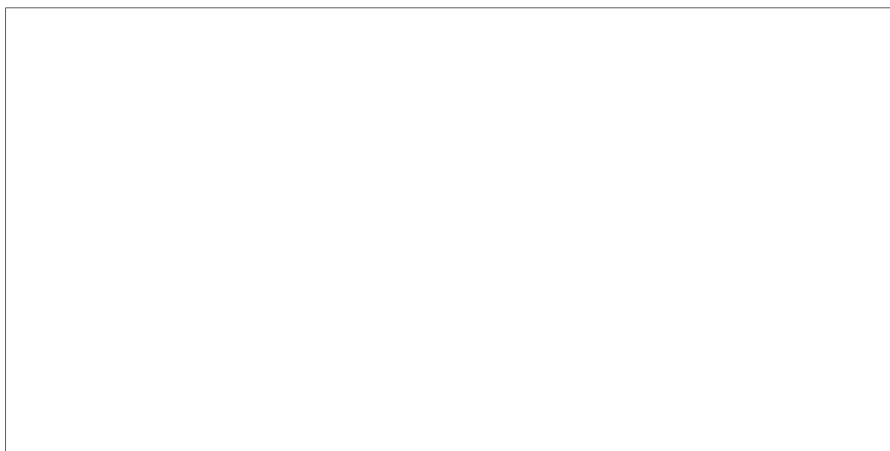performance of the Guard System.

Completion of the Evaluation Phase of the RECON Guard
Development Program will mark the end of the first critical steps to
providing a unique and powerful security tool for Agency and
Intelligence Community systems. ORD looks forward to working with
all participants in this effort.

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Attachments: a/s

CONCUR:

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Oct 31, 1983
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Date

Nov 7 1983
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Date

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CONCUR:

_____ D/ODP   _____ Date   STAT

Distribution:
1 - D/OCR
1 - D/ODP
1 - D/ORD
1 - C/ISSG/OS
1 [_____] D/COINS/NSA   STAT
1 - RECON Committee Members
1 - RECON Contract File

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